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FROM: Winston Hsu, PATENT AGENT, REG. NO.: 41,526

**SERIAL NO.: 10/605,716** 

ATTORNEY DOCKET NO.: MTKP0050USA

SUBJECT: INFORMATION DISCLOSURE STATEMENT

**TOTAL PAGES: 12PAGES (INCLUDING COVER PAGE)** 

Winston Hsu 2004/08/26

PTC/SB/97 (08-03)
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## Certificate of Transmission under 37 CFR 1.8 I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office 08/26/2004 Off Date Celia Celia Hsieh Typed or printed name of person signing Certificate Note: Each paper must have its own certificate of transmission, or this certificate must identify each submitted paper. APPLICATION NUMBER: 10/605,716 PAPERS INCLUDED: (1) Transmittal Form 1 PAGE (2) Fee Transmittal 1 PAGE (3) Information Disclosure Statement 8 PAGES

This collection of information is required by 37 CFR 1.8. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will very depending upon the individual case. Any comments on the amount of time you require to complete this form sudor suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DNOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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TRANSMITTAL	Filing Date	10/21/2003			
FORM (to be used for all correspondence after initial filing)		First Named Inventor	Li-Chun Tu		
		Art Unit 2186			
100000000000000000000000000000000000000		Examiner Name	1		
Total Number of Pages in This Submission	10	Attorney Docket Number	MTKP005	OUSA	
	ENC	LOSURES (Check all the	at apply)		
Fee Transmittal Form Fee Attached Amendment/Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53		Drawing(s)  Licensing-related Papers  Petition  Petition to Convert to a  Provisional Application  Power of Attorney, Revocation  Change of Correspondence Add  Terminal Disclaimer  Request for Refund  CD, Number of CD(s)	rese	to Technok Appeal Cor of Appeals Appeal Cor (Appeal Not Proprietary	osure(s) (please
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Firm or Individual name Signature  Winston Hsu,	Reg.	No.: 41,526			
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Signature				Date	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Parant and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (10-03)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE spond to a collection of information unless it displays a valid OMB control number. <u>Under the Paperwork Reduction Act of 1995, no persons are required to re</u> Complete if Known FEE TRANSMITTAI 10/605,716 Application Number 10/21/2003 for FY 2004 Filing Date Li-Chun Tu First Named Inventor Effective 10/01/2003. Patent fees are subject to annual revision. **Examiner Name** Applicant claims small entity status. See 37 CFR 1.27 Art Unit 2186 TOTAL AMOUNT OF PAYMENT (\$) 0.00MTKP0050USA Attorney Docket No. METHOD OF PAYMENT (check all that apply) FEE CALCULATION (continued) Check Credit card Money Order Other 3. ADDITIONAL FEES None Large Entity | Small Entity Deposit Account: Fee Code Fee Description Deposit Code (5) (\$) 50-3105 Fee Paid Numbe 1051 130 2051 65 Surcharge - late filing fee or path Deposit 1052 2052 North America Intellectual Property Corp. 50 Surcharge - late provisional filling fee or Account Name 1053 130 1053 Non-English specification 130 <u>The Director is authorized to: (check all that apply)</u> 1812 2,520 1812 2,520 For fiting a request for ex parte reexamination Charge fee(s) indicated below Credit any overpayments 920\* Requesting publication of SIR prior to Examiner action 1804 9201 1804 Charge any additional fee(s) or any underpayment of fee(s) Charge fee(s) indicated below, except for the filing fee 1805 1.840 Requesting publication of SIR after Examiner action 1805 1 840° to the above-identified deposit account. 110 2251 55 Extension for reply within first month **FEE CALCULATION** 1252 420 2252 Extension for reply within second month 1. BASIC FILING FEE arge Entity Small Entity 1253 950 2253 475 Extension for reply within third month Fee Paid Fee Description Code (\$) ee Fee 1254 1,480 2254 740 Extension for reply within fourth month 1001 770 2001 385 1255 2.010 2255 1.005 Extension for reply within fifth month Littlity filing fee 1002 340 2002 170 Design filing fee 1401 330 2401 165 Notice of Appeal 1003 530 2003 265 Plant filing fee 1402 330 2402 165 Filing a brief in support of an appeal 1004 770 2004 385 Reissue filing fee 1403 290 2403 145 Request for oral hearing 1005 160 1451 1,510 Petition to institute a public use proceeding 2005 80 Provisional filing fee 1451 1,510 1452 2452 110 55 Petition to revive - unavoldable SUBTOTAL (1) (\$) 0.00 1453 2453 1.330 665 Petition to revive - unintentional 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE 1501 2501 1,330 665 Utility issue fee (or relasue) below 240 Design Issue fee 1502 480 2502 **Total Claims** -20\*\* = х 1503 640 2503 320 Plant Issue fee Independent X 1460 Claims

Multiple Dependent 130 1460 130 Petitions to the Commissioner 1807 50 1807 50 Processing fee under 37 CFR 1.17(q) Large Entity Small Entity 1806 180 1806 180 Submission of Information Disclosure Strnt Fee Description Fee Fee Code (\$) Code (\$) 40 Recording each patent assignment per 8021 40 8021 property (times number of properties) 1202 18 2202 a Claims in excess of 20 385 Filling a submission after final rejection (37 CFR 1.129(a)) 1809 770 2809 1201 86 2201 43 Independent claims in excess of 3 1203 290 2203 145 Multiple dependent claim, if not paid 385 For each additional invention to be examined (37 CFR 1.129(b)) 1810 770 2810 \*\* Réissue independent dalms over original patent 1204 86 2204 1801 770 2801 385 Request for Continued Examination (RCE) 1205 18 2205 \*\* Reissue claims in excess of 20 and over original patent 900 1802 1802 900 Request for expedited examination of a design application Other fee (specify) SUBTOTAL (2) \*Reduced by Basic Filing Fee Paid SUBTOTAL (3) or number previously paid, if greater; For Reissues, see above (\$) 0.00 SUBMITTED BY (Complete (# applicable)) Registration No. Name (Print/Type) Winston Hsu 41,526 Telephone 886289237350 (Attorney/Agent)

426 WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) on application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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/horton

Signature

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L	Complete if Known	1
Application Number	10/605,716	_1
- I	10/21/2003	
First Named Inventor	Li-Chun Tu	
Art Unit	2186	
Examiner Name		
Attorney Docket Number	MTKP0050USA	ブ
	Application Number  Filing Date  First Named Inventor  Art Unit  Examiner Name	Filing Date 10/21/2003  First Named Inventor Li-Chun Tu  Art Unit 2186  Examiner Name

Examiner   Cite   Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), vinumber(s), publisher, city and/or country where published.					
	CHAO et al.; Date Transfer (nstructoin*;8051 Programmer's Guide And Instruction Set, pages 63-64, September 1, 1999, Wu Ching Publishing Group, Talwan, R.O.C.				
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VEYARRACO. I.			_	

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<sup>&</sup>quot;EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation dealgnation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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1 Applicant's unique citation dealgnation is unique citation in the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C., 122 and 37 CFR 1.14. This collection is setimated to take 2 hours to complete, including pathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the encount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

### PATENT

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

5 Applicant(s): Li-Chun Tu

Ping-Sheng Chen
Pao-Ching Tseng

Hung-Cheng Kuo

Filing Date: 10/21/2003 Art Unit: 2186

10 App. No.: 10/605,716 Docket No.: MTKP0050USA

Title: PROCESSOR HAVING AN UNSHARED STACK MEMORY

15 To: Commissioner for Patents

P.O. BOX 1450

Alexandria, VA 22313-1450

Subject: Information disclosure statement under 37 CFR

20 \$1.56.

Dear Sir/Madam:

This is an Information Disclosure Statement in accordance with the duty to disclose information material to patentability under 37 CFR \$1.56. The applicants wish to make of record the documents listed on the accompanying form PTO/SB/08. It is respectfully requested that the examiner initials the cited reference on the form and that it be made of record in the application and that a copy of the initialed form be sent to the applicants with the next

communication from the examiner.

Since the IDS is filed before the mailing date of a first Office action on the merits, a petition to request consideration of the information disclosure statement is hereby requested according to 37 CFR §1.97(b). To comply with 37 C.F.R. \$1.97(e), which states that each item of information contained in the information disclosure statement was first cited 10 communications from a foreign application not more than three months prior to the filing of the information disclosure statement, the reference document contained in the information disclosure statement was first cited in the communication from the Taiwan Intellectual Property Office on June 17, 2004 for a counterpart foreign application. The applicants sincerely hope that the examiner can consider the items contained in this IDS.

According to the requirement set forth in 37 CFR \$1.98 and MPEP 609, the applicants are submitting a copy of the cited paragraph 3-2 from a reference book (published Sep. 1, 1999). The reference document describes the data transfer instructions of the MCS-51 (a well-known 8051 processor manufactured by Intel®) instruction set, such as MOV, MOVC, and MOVX. Since the data transfer instructions are well known to anyone skilled in the art, the lengthy description is omitted for the sake of brevity.

30

The independent claim 1 is repeated as follows.

- 1. A processor comprising:
  - a central processing unit (CPU) processing data according to an instruction set;
  - a data memory storing non-stack data;
- 5 a stack memory storing stack data;
  - a memory address generator producing addresses for accessing the data memory; and
  - a stack pointer generator producing pointers for accessing the stack memory.

10

As one can see, the cited reference fails to teach how to use the memory space of the stack memory instead of the internal data memory when the instructions (e.g. the instructions CALL and RETURN) need to use a stack for storing data. Therefore, it is believed that the cited reference fails to teach all of the limitations in claim 1 of the present invention.

20 Respectfully Submitted,

Wanton Hay

Date: 8/36/3004

Winston Hsu, Patent Agent No.41,526

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U.S.A.

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(Please contact me by e-mail if you need a telephone

30 communication and I will return your call promptly)